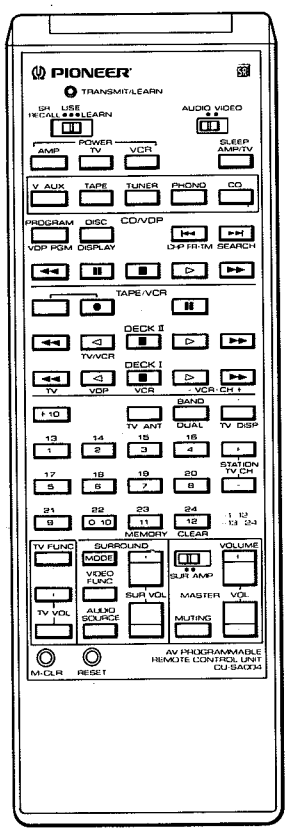
PIONEER®
The future of sound and vision.

CU-SA004

AUDIO VIDEO PROGRAMMABLE REMOTE CONTROL UNIT



Operating Instructions

Thank you for buying this Pioneer product.
Please read through these operating instructions in order to know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
Keys on the remote control unit are effective only if your components have corresponding functions that are remote controllable. Remote controllable functions of non-Pioneer equipment may be programmed into this remote control unit by using its LEARN mode.

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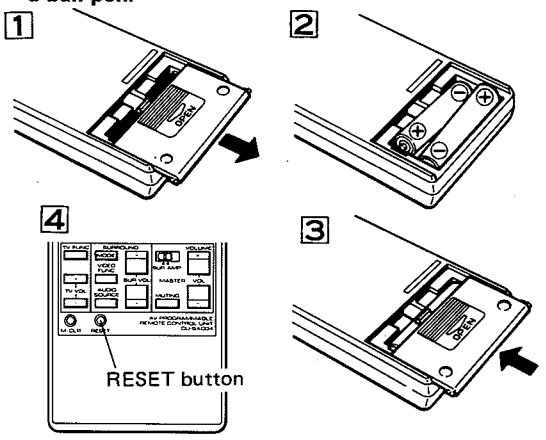
REMOTE CONTROL OPERATION

LOADING BATTERIES

1. **Open the battery compartment cover on the rear of the remote control unit. The cover should open easily if you slide it in the direction of the arrow while pressing on it with your thumb.**
2. **Take out the two supplied alkaline batteries (LR6/AM3), and insert them into the battery compartment in accordance with the indications in the compartment.**
3. **Close the cover of the battery compartment.**
4. **Press the RESET button on the bottom left side of the front of the unit with something suitable such as a ball-pen.**



Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

A.
Always insert batteries into the battery compartment correctly matching the positive (+) and negative (−) polarities, as indicated inside the compartment.

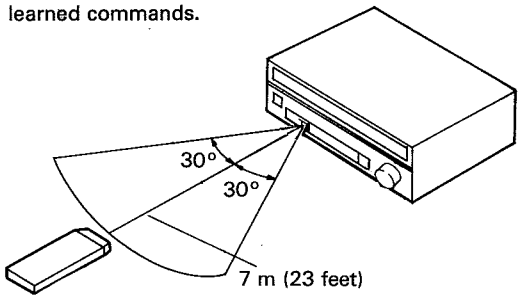
B.
Never mix new and used batteries.

C.
Batteries of the same size may have different voltages, depending on their type. Do not mix different type of batteries.

D.
Be sure to use your batteries in accordance with the caution labels affixed to them.

RANGE OF REMOTE CONTROL

When operating the remote control unit, point the front of the unit at the front panel of the component. The remote control unit may be used within a range of about 7 meters (23 feet) from the remote sensor, within angles of up to about 30 degrees.
These figures are general and do not necessarily apply to learned commands.



Battery Replacement
Replace the batteries as soon as possible if pressing the control keys does not cause the TRANSMIT/LEARN indicator to light even after the RESET button has been pressed. Learned commands will be lost from memory within a short time if batteries are removed. Therefore, have new batteries ready for replacement before removing old batteries.
Also, be sure to always use the specified batteries (LR6/AM3-alkaline batteries).

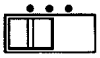
NOTE:
As the unit's power switch is connected to the battery compartment cover:
- *The unit will not operate when the cover is off even if batteries are loaded.*
- *If batteries are not loaded and the cover is replaced, the memory will be lost after a few seconds.*
- *With batteries loaded and the cover off, memory is retained for about 30 minutes.*
- *Be very careful not to lose the battery compartment cover.*

PANEL FACILITIES

POWER switch:
For AMP, TV, and VCR power on/off switching.

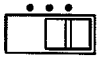
TRANSMIT/LEARN indicator:
When the SR RECALL/USE/LEARN selector is at the SR RECALL or USE position:
The indicator flashes when a remote command key is pressed.
When the SR RECALL/USE/LEARN selector is at the LEARN position:
The indicator lights when the unit is in the LEARNING STANDBY mode.

SR RECALL/USE/LEARN selector:
SR RECALL:



Set to this position if only Pioneer SR code compatible components will be controlled.
USE:

Set to this position if the remote will be used to control Pioneer SR code compatible components and components which use "learned" commands.
LEARN:



Set to this position when "teaching" this remote the commands of other remotes.

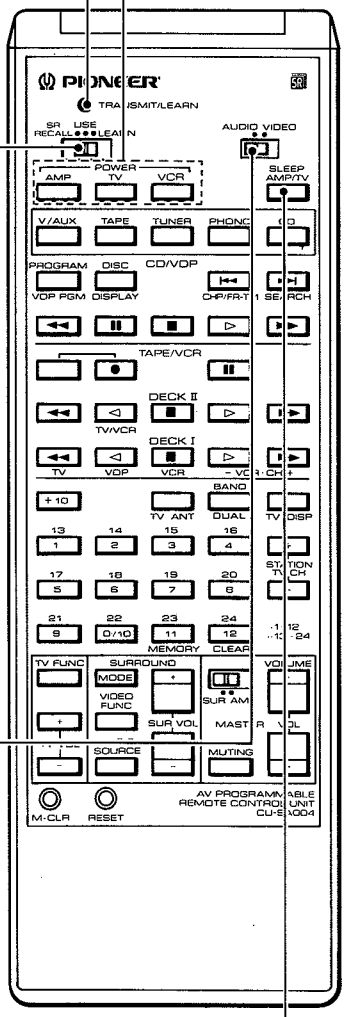
TRANSMISSION MODE switch:
AUDIO MODE:

Set to this position for remote operation of CD players, tape decks, tuners, and other audio components.
VIDEO MODE:

Set to this position for remote operation of VDP players, VCRs, TVs, and other video components.

AMP/TV SLEEP switch:
When the audio mode is selected, this switch is used to turn off the amplifier automatically after the "sleep" time has elapsed.
When the video mode is selected, this switch is used to turn off the television automatically after the "sleep" time has elapsed.
NOTE:
Applies only to components with Sleep Timer feature. Refer to the amplifier and TV operating instructions for information on the Sleep Timer.

Keys explained on this page determine operation of the remote control system itself. The actual keys used for operating remote controlled components are explained on pages four through seven.



REMOTE CONTROL OF CASSETTE DECK

Set the TRANSMIT mode selector to AUDIO.

***FUNCTION key:**
Switches amp input function.

DECK II key:
Switches to the DECK II functions when using a double cassette deck.

(REC) key:
Selects the recording mode. Two keys must be pressed at the same time.

❚❚ (PAUSE) key:
Temporarily interrupts recording or playback. Press again to resume.

◄◄ (FF) key:
Fast forwards the tape in the direction of the arrows.

◁ (PLAY) key:
Starts reverse playback.

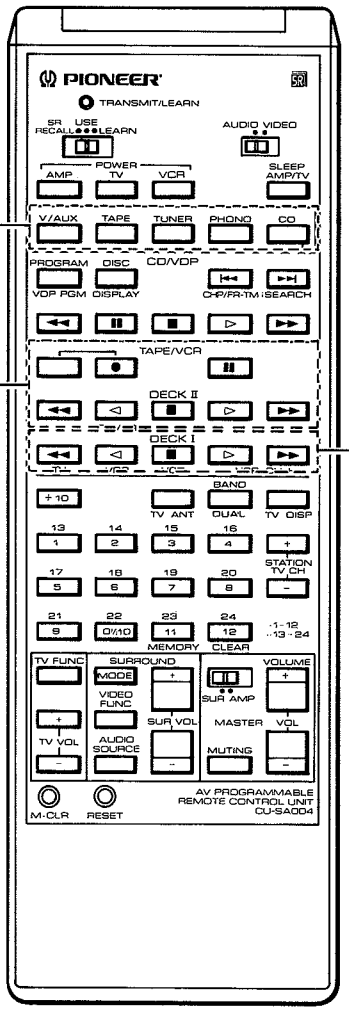
■ (STOP) key:
Stops the tape.

▷ (PLAY) key:
Starts forward playback.

►► (FF) key:
Fast forwards the tape in the direction of the arrows.

NOTE:

- *Keys marked with "*" have the same function in both the AUDIO and VIDEO positions.*
- *The TAPE I/II selector switch on tape decks so equipped cannot be used to control TAPE I. Use the selector switch on the deck itself. (If you set the switch on this deck to TAPE I, you can control it with the TAPE II keys on the remote control unit.)*
- *The* ◁ key can only be used with tape decks capable of reverse play.
- Some keys will not work with all types of tape deck. Refer to the operating instructions for more information.



DECK I key:
Switches to the DECK I functions when using a double cassette deck.

◄◄ (FF) key:
Fast forwards the tape in the direction of the arrows.

◁ (PLAY) key:
Starts reverse playback.

■ (STOP) key:
Stops the tape.

▷ (PLAY) key:
Starts forward playback.

►► (FF) key:
Fast forwards the tape in the direction of the arrows.

REMOTE CONTROL OF COMPACT DISC PLAYER (CD)

Set the TRANSMIT mode selector to AUDIO.

DISC (DISC NO) key:
For selection of particular discs in MULTI-PLAY COMPACT DISC PLAYER equipped with a disc magazine.

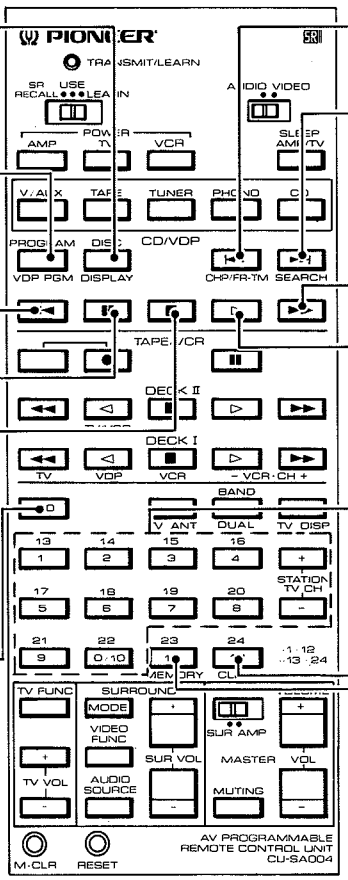
PROGRAM key:
Works to switch the 1 — 0/10 keys from the Tuner Station No, keys to the CD Track No, keys When selecting a CD track number, press the PROGRAM key before pressing the 1 — 0/10 keys. Note that pressing the ▷ key will switch back from the Track No, key setting to the Tuner Station No key setting.

◄◄ (MANUAL SEARCH) key:
For fast backward search.

II (PAUSE) key:
Temporarily interrupts play.

■ (STOP) key:
Stops the disc.

+10 Key (for future use)
Use this key when selecting more than 10 tracks. This key adds 10 to the track number each time it is pressed.
Example: Track 31
[+10]•[+10]•[+10]•[1]



|◄◄ (TRACK SEARCH) key:
Returns to the beginning of the current track.

►►| (TRACK SEARCH) key:
Goes to the end of the current track.

►► (MANUAL SEARCH) key:
For fast forward search.

▷ (PLAY) key:
Begins play.

1 — 0/10 (numeric) keys:
For direct selection of a track or programming of tracks.

NOTE: The track number key for the compact disc player is "0". The TUNER STATION number key is "10".

CLEAR key:
Erases the current program from memory.

MEMORY key:
Used for storing a program in memory.

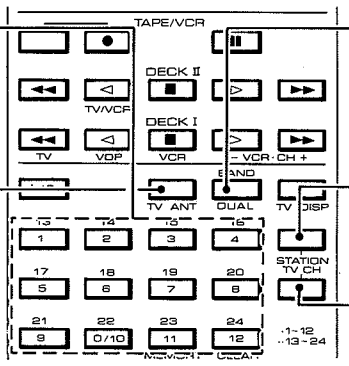
REMOTE CONTROL OF TUNER

Set the TRANSMIT mode selector to AUDIO.

1 to 12 (STATION CALL) keys:
For direct tuning of stations stored in STATION CALL memory.
Pressing these keys twice gives an additional 12 settings, numbered 13 to 24.

(mode selector) key:
Switches between Mode 1 (1 to 12) and Mode 2 (13 to 24).

NOTE: Operation is possible only with tuners which have a STATION CALL mode switch.



BAND key:
Switches between AM and FM or other.

STATION + (UP) key:
Increases the (PROGRAMMED) station number.

STATION — (DOWN) key:
Decreases the (PROGRAMMED) station number.

REMOTE CONTROL OF VIDEODISC PLAYER (VDP OR LD)

Set the TRANSMIT mode selector switch to VIDEO.

DISPLAY call key:
Clears the chapter and frame/time displays on the screen.

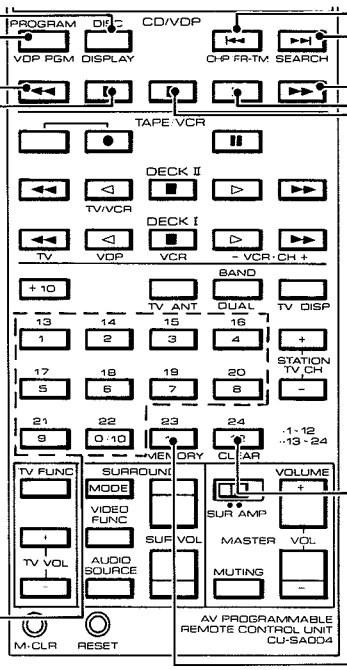
PROGRAM key:
Switches the 1 — 0/10 keys from the TV Channel keys to the VDP CHP/FR-TM No. keys:
To use the VDP CHP/FR-TM No. keys, press this key to switch the key functions, then use the 1 — 0/10 keys. Note that pressing the ▷ key will switch back from the VDP CHP/FR-TM No. key setting to the TV channel key setting.

◄◄(SCAN) key:
For fast backward scanning.

▮▮ (PAUSE) key:
Temporarily interrupts video and audio playback.

1 — 0/10 (numeric) keys:
Used for chapter and frame/time number search and for chapter program play.

NOTE: The 0/10 key number for VDP CHP/FR-TM is "0". The TV CH key number is "10".



CHP/FR-TM (CHAPTER/FRAME-TIME) key:
Used for chapter or frame (time) search operation.

SEARCH key:
Used for search and memory repeat operation.

►►(SCAN) key:
For fast forward scanning.

▷ (PLAY) key:
Selects playback.

■ (EJECT) key:
Playback is stopped when pressed once. Pressing again causes the disc tray to open.

CLEAR key:
Used for canceling repeat playback, number correction and mode release during search operation, and for canceling program play.

MEMORY key:
Used for chapter program play.

REMOTE CONTROL OF VIDEOCASSETTE DECK (VCR)

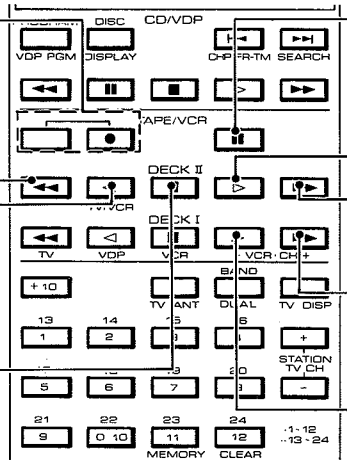
Set the TRANSMIT mode selector to VIDEO.

(REC) key:
Selects the recording mode. Two keys must be pressed at the same time.

◄◄(REW) key:
Rewinds the tape and allows picture search.

TV/VCR ANT key:
This key can be used only for VCRs with a VCR/TV selector. It switches the antenna output between VCR and TV.

■ (STOP) key:
Stops the tape.



▮▮ (PAUSE) key:
Temporarily interrupts recording or playback, producing a still picture during playback.

▷ (PLAY) key:
Starts playback.

►►(FF) key:
Fast forwards the tape and allows picture search.

VCR CH + (UP) key:
Increases the next number in the channel memory each time it is pressed.

VCR CH — (DOWN) key:
Decreases the next number in the channel memory each time it is pressed.

REMOTE CONTROL OF TV

Set the TRANSMIT mode selector to VIDEO.

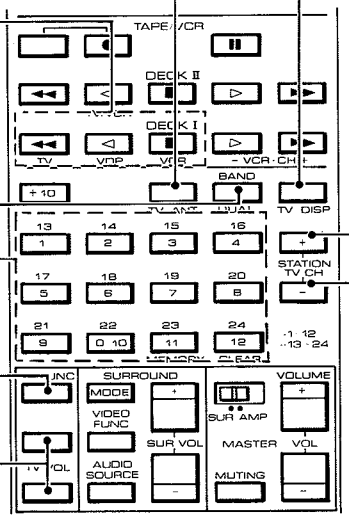
TV FUNCTION key:
Selects the TV function.

DUAL key:
Switches sound between MAIN, SUB, and MAIN/SUB during reception of multiplex TV sound. See TV operating instructions for details.

1 to 12 (CHANNEL CALL) keys:
Used to select channels, using the CHANNEL CALL function.

***TV FUNC key:**
Selects each function in a cyclic.

***TV-VOL +/− keys:**
For volume adjustment.



TV ANT key:
Used to select the antenna on TV sets which have 2 antenna inputs.

TV DISP key:
Puts display on TV screen. Clears display from screen.

CHANNEL + (UP) key:
Increases the next number in the channel memory each time it is pressed.

CHANNEL − (DOWN) key:
Decreases the next number in the channel memory each time it is pressed.

Note: Keys marked with "" have the same function in both the AUDIO and VIDEO positions.*

- Some televisions cannot be controlled using the TV FUNC key. If this is the case, please use the controller provided with the television.

REMOTE CONTROL OF AMPLIFIER

***FUNCTION SELECTOR keys:**
Press to select the audio source: V/AUX, TAPE, TUNER, PHONO, or CD.

Note: Keys marked with "" have the same function in both the AUDIO and VIDEO positions.*

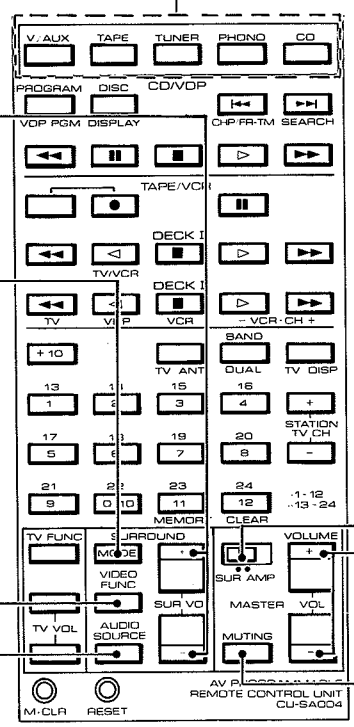
SURROUND VOLUME key:
Adjusts volume of surround amplifier.

SURROUND MODE key:
Selects the surround mode in a loop sequence as shown here.

STADIUM → SIMULATED SURROUND → DOLBY SURROUND → OFF →

VIDEO FUNCTION key:
Used to select a video source. The sources switch cyclically.

AUDIO SOURCE key:
Used to select a audio source. The sources switch cyclically.



SUR/AMP switch:
Set the switch on the amplifier to the SUR position when a surround adaptor is connected. When a adaptor is not connected, set the switch to the AMP position. Should you attempt to operate the unit in the SUR mode when an adaptor has not been connected, the MUTING key will not operate. Alternatively, if you try to operate the unit in the AMP mode with a surround adaptor connected, the MUTING key on the front panel alone will operate while SUR VOL, SUR MODE, VIDEO FUNC and AUDIO SOURCE will not operate (SUR VOL, SUR MODE, VIDEO FUNC and AUDIO SOURCE operate only with AV digital surround processing amplifiers).

AMP VOLUME (MASTER VOLUME) key:
Adjusts the overall (front and surround) volume.

AMP MUTING (SURR OVER ALL) key:
Used to temporarily mute the sound. The volume is restored when pressed again.

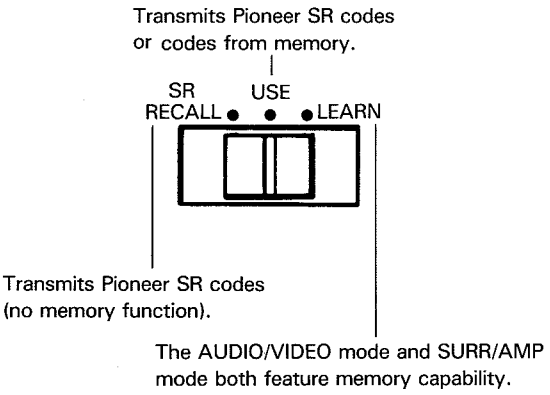
USE OF LEARNING FUNCTIONS

Introduction

This system remote controller may "learn" the commands of other remote control unit, regardless of manufacturerer, as long as the other unit is of the infrared type. In some cases you may still need the original remote control unit for special situations. But as a rule, you will be able to use this Pioneer remote for most system control needs, including video as well as audio equipment.

NOTE:

When using the "LEARN" mode it is a good idea to take the another remote control unit to another room. This avoids problems such as sudden high volume output or accidental tape erasure that may occur if particular infrared command signals reach your componients. Alternatively you may wish to unplug your component system. Simply turning off the power may not be sufficient since power on/off switching may also be remote controllable.



Which keys can be programmed with new commands?

By setting the SR RECALL/USE/LEARN selector to the LEARN position, you can memorize codes in the AUDIO mode and VIDEO mode for the TRANSMISSION mode switch. Memorization is also possible with the SURROUND AMP switch in the SUR mode or AMP mode. (The AUDIO/VIDEO mode switch and the SUR/AMP switch do not affect each other.)

The USE mode allows you to use the remote control to operate your system components. Only Pioneer SR codes are transmitted in the SR Recall mode, and none of the keys can be used for memory of other codes. The keys on the remote control unit change their functions according to the setting of the TRANSMISSION mode switch. You can switch the TRANSMISSION mode between the AUDIO and VIDEO modes.

You can assign new commands to the keys in each of the modes. In the VIDEO and AUDIO mode, all keys can be assigned new commands.

When you first start using the remote control unit, it contains initial commands appropriate for Pioneer equipment (when set to the AUDIO and VIDEO modes). If your audio and video equipment consists of Pioneer components exclusively you can use the remote control unit as is. It is also possible to restore the original Pioneer commands after assigning other commands. (Refer to "Returning to the Initial Settings" for this procedure.)

Other Important Notes

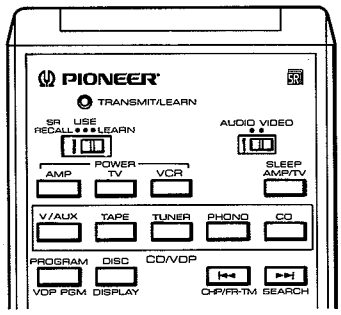
- A total of 40 keys may be used for memorization of other codes. (This may very depending on the command format of the codes to be memorized.)
- There are 2 REC keys on the remote control unit to prevent misoperation. To start recording, or to memorize a command code with the REC keys, the must both be pressed at the same time.
- If the batteries become weak, all functions will be stopped automatically. If the indicators no longer light or flash, or components do not respond to signals from the remote control unit, you should replace the batteries with a set of fresh ones. (Always use the recommended size alkaline cells.)
- When pressetting keys, make sure that the remote control units of both this and the other component are loaded with fresh batteries.
- For some special remote signal types of infrared remote control units programming may be impossible.

Using the remote control unit of your VCR to program the playback command.

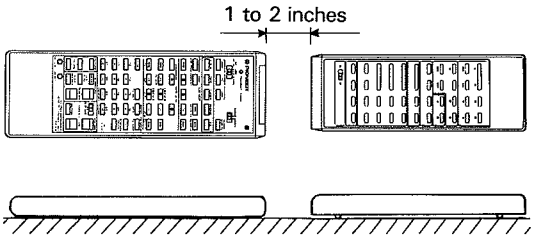
- It is recommended that the name of the key and its function correspond. This convenient when operating equipment.

[Operation example]

1. **Set the SR RECALL/USE/LEARN switch of the programmable remote control unit to the LEARN position and set the TRANSMISSION mode switch to the VIDEO position.**
   - Programming is possible with the TRANSMIT mode selector switch in any position, but VIDEO is used as an example.



2. **Place the transmission sections of the programmable remote control unit and the remote control of the VCR facing each other.**



- Place the two units on a table, separated by 2 to 5 cm (1 to 2 inches).
  Memorization will not be possible if they are too close.

3. **Hold down the VCR PLAY key of the programmable remote control unit until the TRANSMIT/LEARN indicator lights up, then release the key.**
4. **Hold down the PLAY key of the VCR remote control unit.**
5. **Release the key of the VCR remote control unit after making sure that the TRANSMIT/LEARN indicator has gone out on the programmable remote control unit.**

NOTE:
If the LEARN indicator flashes, it indicates that you are trying to preset a key not available for the learning function, or otherwise the program capacity has been exceeded. In case the program capacity has been exceeded, the function programmed last will not be memorized correctly. All previously programmed functions, however, will be retained in memory and may be used as they are if the last function is not essential. For re-programming refer to page 10 "Returning to the Initial Settings".

6. **Set the SR RECALL/USE/LEARN selector switch of the programmable remote control unit to the USE position.**
   - The previous code (Pioneer uniform remote control code or code for other equipment) is erased and replaced by the new code.
7. **Check that the program works.**
   - Try actual operation and make sure the unit works properly.
   - If the VCR does not operate when pressing the key, change angle, position and distance between both remote control units and repeat the programming procedure.
   - When programming, make sure that the function indications (for example, ►, ►►, ■) on the other remote control unit and the programmable remote control unit are the same. This will facilitate operation.

When teaching functions whose names differ from those of the keys, write in the names or codes of the functions on the included templates and place on the panel.

Questions and Answers about the Learning Function

Q: The remote control unit of my VCR has two REC (recording) keys. They both have to be pressed at the same time to start recording. What is the learning procedure in this case?

A: Hold one of the keys on the programmable remote control depressed (except the VCR ● key) until the TRANSMIT/LEARN indicator lights up, and then press the two keys on the VCR remote control simultaneously.

Q: The remote control unit of my VCR has a REC (recording) key and a PLAY (playback) key and they both have to be pressed at the same time to start recording. What is the learning procedure in this case?

A: Hold one of the keys on the programmable remote control depressed (except the VCR ● key) until the TRANSMIT/LEARN indicator light up, and then press the REC and PLAY keys on the VCR remote control simultaneously.

- As described above, operations which require two keys to be pressed at the same time are programmed by pressing the two keys simultaneously.

NOTE:

If both of the REC keys (▭ ⊙) are not pressed simultaneously, the VCR ● key cannot be memorized.

Operating other equipment by the programmable remote control unit

1. Set the SR RECALL/USE/LEARN selector of the programmable remote control unit to the USE position.
2. Set the TRANSMIT mode selector switch to the desired position (AUDIO/VIDEO).
   - Set the VIDEO position for programming as described in the example.
3. Press the key of the desired function.
   - The TRANSMIT/LEARN indicator lights up while the remote control unit is sending codes.

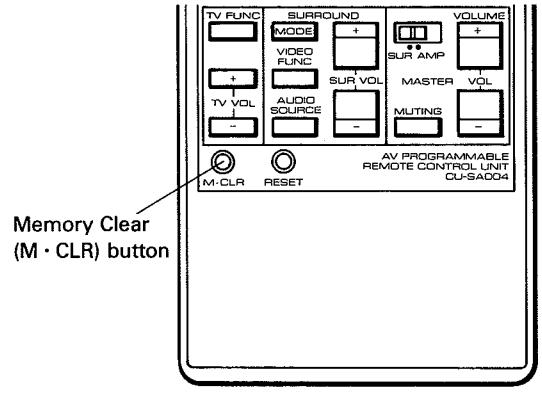
Note:

- *When operating a device with the programmed remote controller, always set the LEARN changeover switch to the USE position.*
- *For functions which require two keys to be pressed at the same time (recording, etc.) or functions for which several codes are sent simultaneously (auto functions, timer programming, etc.) the programming procedure is different and improper operation may occur.*
- *The remote control unit will not operate when the battery cover is removed.*

Returning to the Initial Settings

To return all settings to the Pioneer Uniform Remote Control Code settings, set the SR RECALL/USE/LEARN switch to the SR RECALL position. Proceed as follows to memorize new codes when the memory is full.

1. Set the RECALL/USE/LEARN selector switch to the LEARN position.
2. Press one of the LEARN keys. The TRANSMIT/LEARN indicator will light up.
3. **Use a ball-point pen or similar object to press the M · CLR button while the TRANSMIT/LEARN indicator is flashing.**
   - **The programmed functions for the AUDIO and VIDEO positions are cleared, and the remote control unit is reset to the Pioneer uniform remote control codes.**
   - **Do not press the keys with too much force.**



SPECIFICATIONS

Operation system:	Programmable infrared remote control system
Applicable batteries:	two LR6/AM-3 alkaline batteries
Attachments:	two batteries, an operating instructions, a written guarantee and two templates.
Outer dimensions:	73 W × 21 H × 218 D mm
Weight:	130 g (excluding batteries)

Note on CD operation

The program input and direct music selection procedures differ slightly from those of the remote control unit supplied with Pioneer CD players.

Programmed playback operation using the CD player remote control unit

(1: Disc No. [1] ~ [6] key) → 2: Track No. [1] ~ [0] key → 3: MEMORY key → 4: Repeat steps 1 to 3 → 5: PLAY key

Programmed playback operation using the programmable remote control unit

1: PROGRAM key → (2: DISC key) → 3: [0/10] ~ [9], [+10] key → 4: 23 / 11 / MEMORY key → 5: Repeat steps 2 to 4 → 6: [▷] key

Direct music selection using the CD player remote control unit

(1: Disc No. [1] ~ [6] key) → 2: Track No. [1] ~ [0] key → 3: PLAY key)

Direct music selection using the programmable remote control unit

(1: DISC key) → 2: PROGRAM key) → 3: [0/10] ~ [9], [+10] key → 4: [▷] key

As above, the PROGRAM CD operation key must be pressed before entering a number

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